



National Institute of Technology Kurukshetra, Haryana 136119

Phone: (01744) 233266, 233267, 233566

E- mail: stores@nitkkr.ac.in Website: <http://www.nitkkr.ac.in>

Tender Document

National Institute of Technology Kurukshetra (An Autonomous Body of the Ministry of Education, Govt. of India) invites ONLINE bids (e-tender) under **two bid** system (Technical + Financial) System, from only eligible Class-I & Class-II suppliers for the following items/work.

Tender No.	SEO/CIVIL/10/24-25
Date	27.08.2024
Item Name	Renovation of the Computational Lab (Civil & Electrical Works) of the Department of Mathematics
Tender Fee	₹ 500/-
Bid Security/EMD	₹ 24700/-
Performance Security	5 % of the contract value valid till 60 days beyond the completion of warranty period
Estimated Cost	₹ 12,33,719/-

SECTION-I SCHEDULE OF TENDER

Particulars	Date	Time
Date of Online Publication	27.08.2024	04.00 PM
Bid Submission Start Date	28.08.2024	10.00 AM
Pre-Bid Meeting Date	09.09.2024	11.00 AM
Bid Submission Close Date	18.09.2024	06.00 PM
Opening of Technical Bid	19.09.2024	09.00 AM
Opening of Financial Bid	After completion of the technical evaluation	
Validity of the bid	90 Days	
Delivery Period	90 Days	

SECTION-II
PRE-QUALIFICATION CRITERIA

S. No.	Details	Compliance (Yes/No)
1	Whether the bidder is registered with PAN and GST clauses. Provide the duly signed copy of Annexure-1	
2	Bidders Acceptance of Tender document as per Annexure-2	
3	EMD for an amount as mentioned in the Notice Inviting Tender should be submitted in the form of DD or NEFT/RTGS (copy of the EMD deposit should be submitted along-with the technical bid) In case of exemption, a valid document should be submitted.	
4	Whether the bidder fulfills the required experience? Provide the details as per Annexure 3	
5	Whether the Bidder meets the minimum requirement of financial turnover. Provide the details as per Annexure 4	
6	Duly signed Integrity Pact as per Annexure-5 should be submitted within the scheduled delivery period	
7	Whether the goods offered are from a country which shares a land border with India If yes, the details of Registration with Department of Promotion of Industry & Internal Trade (DPIIT), Government of India.	
8	Whether firm is Local Supplier as per Make in India order (Please Submit the Documentary Evidence for Local Content issued by OEM as per Annexure-6)	
9	The name and details of Owners / Partners / Directors / MDs of the firm/company along with details of Registration with the Govt. Departments (Class & Value).	
10	Whether the bidder is registered with ESIC, EPFO, a valid document should be submitted	

Note: Bids not complying with the above pre-qualification criteria and non-submitting of the required documents are liable to be rejected.

SECTION-III

TECHNICAL SPECIFICATIONS OF THE ITEM/WORK-A

Name and Scope of work: Renovation of Computational Lab (Civil & Electrical Works) of the Department of Mathematics

Sr. No.	Description of the Item and Specification	Quantity	Unit
WOOD AND PVC WORK			
1.1	Providing and fixing aluminum sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :		
1.1.1	300x16 mm	1.00	each
1.2	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :		
1.2.1	300x10 mm	2.00	each
ALUMINIUM WORK			
2.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :		
2.1.1	For fixed portion		

2.1.1.1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	94.48	kg
2.2	Providing and fixing 12 mm thick pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer- in- charge.		
2.2.1	Pre-laminated particle board with decorative lamination on both sides	3.70	sqm
2.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item):		
2.3.1	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/ sqm)	12.43	sqm
2.4	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.		
2.4.1	With stainless steel cover plate minimum 1.25 mm thickness	1.00	each
ROOFING			
3.1	Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595mm of approved texture, design and patterns as per CPWD Specification 2019, to be laid in true horizontal level		

	suspended on inter-locking metal T-Grid of hot dipped galvanised iron section of 0.33mmthick (galvanized @ 120 grams per sqm including both sides)comprising of main-T runners of size 24x38 mm of length 3000 mm,cross - T of size 24x32 mm of length 1200 mm and secondary intermediate cross-T of size 24x32 mm of length 600mm to formgrid module of size 600 x 600 mm, suspended from ceiling usinggalvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 12x50 mm long dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 76x25x25x1.6 mm fixed with grid and Z cleat of size 25x37x25x1.6mm thick with precut hole on both 25mm flange to pierce into 12x50mm or even bigger size dash fastener if require, fixed with Glavanised iron perimeter wall angle or size 24x24x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450mm center to center and 40 mm long dry wall S.S screws. The workshall be carried out as per specifications, drawing and as per directionsof the Engineer-in-Charge.		
3.1.1	With 15 mm thick Tegular edged light weight calcium silicate false ceiling tiles	116.95	sqm
NON SCHEDULE ITEM			
4.1	Providing and fixing aluminium American type handle of size 200 mm anodised (anodic coating not less than grade AC10 as per IS:1868) transparent or dyed to required colour or shade, with SS screws etc. complete as per direction of Engineer-incharge		
4.1.1	Powder coated minimum thickness 50 micron aluminium	2.00	each
4.2	Providing and fixing vertical blind of 100 mm in width in any colour of vista or equivalent as approved by engineer in charge.	33.28	sqm

Type: Civil works.

Location of work: NIT Kurukshetra.

TECHNICAL SPECIFICATIONS OF THE ITEM/WORK-B

Name and Scope of work: Renovation of Computational Lab (Civil & Electrical Works) of the Department of Mathematics

Sr. No.	Description of item	Qty	
1.0	Supplying and fixing following rating, four pole, 415 V, isolator in existing MCB DB complete with connections, testing and commissioning etc. as required.		
1.1	40 A	4	Nos
1.2	63 A	2	Nos
1.3	100 A	1	Nos
2.0	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit/ DLP trunking / in the furniture etc. as required.		
2.1	5x6 sq. mm	120	Mtrs
3.0	Supplying, installation testing and commissioning of recess mounting type LED of 2'x2' size(N.S.) with aluminium/CRCA powder coated housing anti glare diffuser with separate energy efficient electronic driver with efficacy better than 130 lumen/watt (minimum total lumen delivered package 3200) with CCT =4000k or 5700k as approved by engineer-in-charge. PF>0.95 THD<10% and with APFC CCCV driver having efficiency>85 % service life of 50000 hrs @ L70 etc. complete i/c hanging arrangement with steel chain/steel wire and steel fastner hook i/c making suspension arrangement with gear wire including connection with 3x1.5 sq.mm. FRLS PVC insulated copper conductor cable in GI /steel flexible pipe etc as required.	8	Nos.

	(Makes - Trilux Troffer X LED Philips RC380B LED36S -6500 GS PSU WH/LT Cat no. 002457 R000- Optima Venture- Maple Neo Recess)		
4.0	<p>Supplying, Installation, testing and commissioning of following size energy efficient ceiling fan, including providing & fixing phenolic laminated sheet cover on the fan box/truss and wiring the down rod with 1.5 sq.mm FRLS PVC insulated, copper conductor, single core cable etc. as required)</p> <p>i) 1200mm sweep ceiling fan with ISI</p>	8	Nos

Type: Electrical works.

Location of work: NIT, Kurukshetra.

TECHNICAL SPECIFICATIONS OF THE ITEM/WORK-C

Name and Scope of work: Renovation of Computational Lab (Civil & Electrical Works) of the Department of Mathematics

Sr. No.	Description of item	Qty	
1.0	Cassette Air conditioning system		
1.1	Supply, Installation, Testing and Commissioning of Air-cooled Cassette AC unit comprising of Scroll/ Rotary/ Twin compressor. The indoor unit shall be complete with DX coil, filters, blower section with motors & drive refrigerant piping, electronic expansion valve distributor, starter and other necessary controls. Each indoor unit shall have condenser coil, fans with motors and drive, single compressor, factory pre- charged with R410/R32/R404 Refrigerant gas, oil, and factory fitted refrigerant service valves and Electronic Expansion Valve, HP/LP cutout. The unit shall have electrical safety features like, phase reversal. All items should be encased in enamel painted anti corrosive, sheet metal cabinet. The heat exchanger for outdoor shall be constructed with copper tubes mechanically bonded to aluminum fins to form a cross fin coil. The Condenser fins must be coated with Anti- corrosive treatment. Cassette AC- R410/R32/R404 Fixed speed Cooling Only 2.0 TR Cassette AC Make: Carrier/Daikin/O-General/Toshiba	4	Nos

Type: Air conditioning Work

Location of work: NIT, Kurukshetra.

SECTION-IV

PRICE BID

S. No.	Item Description	Qty	Rate (Rs.)	Total without GST	GST (Rs.)	Total with GST
1						
2	DO NOT QUOTE PRICE HERE					
3						

The quoted price must also consider the statutory provisions like water charges, Labour Cess, Income tax and other related provisions.

LIST OF DOCUMENTS TO BE UPLOADED WITH TECHNICAL BID

S. No.	Documents
1	Duly filled Pre-Qualification criteria
2	Copy of bidder's information regarding PAN & GST as per Annexure-1
3	Copy of tender acceptance as per Annexure-2
4	Copy of experience certificate as per Annexure 3
5	Copy of annual financial turnover as per Annexure 4
6	Copy of Integrity Pact as per Annexure-5
7	Certification of Local Content available as per MII order as per Annexure-6
8	Copy of technical compliance.
9	Name and details of Owners / Partners / Directors / MDs of the firm/company along with details of Registration with the Govt. Departments (Class & Value).
10	Copy of registration with ESIC & EPFO.

SECTION 5

PROCEDURE FOR SUBMISSION OF E-TENDER

INSTRUCTIONS TO THE TENDERERS

The tender shall be submitted in accordance with these instructions and any tender not conforming to the instructions as under is liable to be rejected. These instructions shall form the part of the tender and the contract.

- For Online Bid Submission as per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal (URL:<http://eprocure.gov.in/eprocure/app>). The bidders are required to submit copies of their bidselectronically on the CPP Portal, using valid Digital Signature Certificates.
- More information useful for submitting the online bids on the CPP Portal is available/obtained at [URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app)
- For Registration, Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <http://eprocure.gov.in/eprocure/app>). Enrollment on the CPP Portal is free of charge.
- Foreign Bidders have to refer “DSC details for foreign Bidders” for Digital Signature Certificate requirements which comes under Download Tab at the <http://eprocure.gov.in/eprocure/app?page=Standard Bidding Documents &service=page>
- While submitting the tender, if any of the prescribed conditions are not fulfilled or are incomplete in any form, the tender is liable to be rejected. If any tenderer stipulates any condition of his own, such conditional tender is liable to be rejected.
- NITK, Kurukshetra reserves the right to reject any tender/bid wholly or partly without assigning any reason.
- The Tender committee constituted by the NITK, Kurukshetra shall have the right to verify the particulars furnished by the bidder independently.
- Tenderer shall take into account all costs including installation, commissioning, cartage etc. for giving delivery of material at site i.e. NITK, Kurukshetra before quoting the rates. Properly mentioned in BOQ in this regard no claim for any extra payment for any reason shall be entertained.

- The item should be delivered at NITK, Kurukshetra, Haryana-136119, INDIA and the supplier shall be responsible for any damage during the transit of goods.
- All the tender documents & price bid to be uploaded as per this tender are to be digitally signed by the bidder.
- Interested bonafide and reputed manufacturers/India agents (on behalf of their foreign principals) may submit Online bids for above item/s/work along with all requisite documents and scanned copy of Tender Fee/EMD.
- The Bidder(s) may note that ONLINE BIDS will ONLY be accepted. All the requisite supporting documents mentioned in the bid document should and must be uploaded On-line <http://eprocure.gov.in/eprocure/app>. The Bids sent through FAX, E-mail, by hand and/or by post shall not be accepted/ processed, in any case.
- The bidders may submit duly filled and completed bidding document ONLINE as per instruction contained in the bidding documents. Incomplete bid shall be rejected. The conditions of tender shall be governed by the details contained in complete bid document.
- In case, holiday is declared by the Government on the day of opening the bids, the bids will be opened on the next working day at the same time.
- The detailed instruction for Online submissions of bid(s) through e-Procurement module of Central Public Procurement of NIC, the bidder(s) may visit the following link: - <http://eprocure.gov.in/eprocure/app?=&service=&page>

SECTION 6

INSTRUCTIONS FOR ONLINE BID SUBMISSION

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

REGISTRATION:

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link “Online bidder Enrollment” on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify/nCode/eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC’s to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID/ password and the password of the DSC / e-Token.

SEARCHING FOR TENDER DOCUMENTS:

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters

such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.

2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.

3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS:

1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.

2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents- including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.

3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG / J P E G formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.

4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

Note: My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of Technical Bid.

SUBMISSION OF BIDS:

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as “offline” to pay the tender fee/EMD (wherever applicable) as applicable and enter details of the instrument.
- 4) Bidder should prepare the Tender Fees/EMD (wherever applicable) as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 5) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white colored (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
- 6) The server time (which is displayed on the bidders’ dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 7) All the documents being submitted by the bidders would be encrypted using PKI

encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.

8) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.

9) Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.

10) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS:

1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.

2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

GENERAL INSTRUCTIONS TO THE BIDDERS

1) The tenders will be received online through portal <http://eprocure.gov.in/eprocure/app> In the Technical Bids, the bidders are required to upload all the documents in pdf format.

2) Possession of a Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/e-token in the company's name is a prerequisite for registration and participating in the bid submission activities. Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the

web site <https://eprocure.gov.in/eprocure/app> under the link "Information about DSC".

3) Tenderer are advised to follow the instructions provided in the "Instructions to the Tenderer" for the e-submission of the bids online through the Central Public Procurement Portal for e- Procurement at <https://eprocure.gov.in/eprocure/app>

[Online Bid Form](#)

The bidder shall complete the online bid form and the appropriate price schedule furnished in the online bidding documents, indicating, inter alia for the goods to be supplied, a brief description of the goods, their country of origin, quantity and prices.

[Online Bid prices](#)

The Bidder shall indicate on the Price Schedule the unit price and total bid prices of the goods it proposes to supply under the Contract. To this end, the Bidders are allowed the option to submit the online bids for any one or more schedule specified in the "Schedule of Requirement" and to offer discounts for combined schedules. However, Bidders shall quote for the complete requirement of goods and services specified under each schedule on a single responsibility basis, failing which such bids (for the schedule in question) will not be taken into account for evaluation and will not be considered for award.

Prices indicated in the online price schedule shall be entered separately in the following manner.

I. [For goods offered from within India:](#)

- a) The price of the goods should be quoted for destination basis, charges towards freight; installation etc. may be mentioned inclusive of GST as applicable after referring the attached GST Notification.
- b) Any sales or other taxes/duties should be clearly mentioned, which will be payable on the goods in India if the contract is awarded.
- c) Charges for inland transportation, insurance and other local costs incidental to delivery of goods to their final destination should be mentioned.
- d) Any element of cost, taxes, duties levies etc. not specifically indicated in the online bid, shall not be paid by the purchaser. If GST amount is not quoted in the BOQ (Financial Bid), the total cost will be treated as inclusive of GST.

II. For goods offered from abroad:

- a) The price of goods shall be quoted in Ex-Works/FCA/CIP and the same should be mentioned in terms & conditions of the firm.
- b) Charges for inland transportation, insurance and other local costs incidental to delivery of the goods from the port of entry in India to their final destination should be specified.
- c) The terms FOB, CIF, CIP etc. shall be governed by the rules and regulations prescribed in the current edition of INCOTERMS, published by the Chamber of Commerce, Paris.
- d) Prices quoted by the bidder shall remain firm and fixed during the currency of the contract and not subject to variation on any account, unless otherwise specified in the Requirements.

III. Bid currencies

- a) For domestic goods prices shall be quoted in Indian rupees only. Commission for Indian Agent, if payable, shall also be quoted in Indian Rupees only.
- b) For imported goods prices shall be quoted either in Indian rupees or may be quoted in foreign currency and the portion of the allied work and services, which are to be undertaken in India (like supply and installation), are to be quoted in Indian currency.

IV. Indian Agent

- a) If a foreign bidder has engaged an agent in India in connection with its online bid it will be required to give the following information in the online bid:
 - i. Name and address of the Indian agent with their permanent income tax number.
 - ii. Details of the services the agent will render
 - iii. Agency commission shall be indicated in the space provided for in the price schedule and will be paid to the bidder's agent in Indian rupees

FINANCIAL BID - Schedule of price bid in the form of BOQ format:

1. The Financial Proposal/Commercial bid format is provided as BoQ along with this tender document at <http://eprocure.gov.in/eprocure/app>

2. Bidders are advised to download this BoQ.xls as it is and quote their offer/rates in the permitted column and upload the same in the commercial bid.
3. Bidder shall not tamper/modify downloaded price bid template in any manner. In case if the same is found to be tampered/modified in any manner, tender will be completely rejected and EMD shall be forfeited.
4. If GST amount is not quoted in the BOQ (Financial Bid), the total cost will be treated as inclusive of GST.
5. The tender shall remain valid for acceptance for validity period mentioned in the Notice Inviting Tender, from the date of tender opening.

TERMS AND CONDITIONS OF THE CONTRACT

1) Name and Scope of work:

- 1.1 The name of the work is Renovation of Computational Lab (Civil & Electrical Works) of the Department of Mathematics, with the estimated cost of ₹ 12,33,719/-
- 1.1 The tenderer/contractor before submitting the tender should read the schedule of quantities, general conditions, special conditions, specifications, and other terms & conditions.

2) Registration:

- 2.1 The tenderer / contractor must be registered with PWD (B&R)/ CPWD and other Government department as a Govt. Contractor in appropriate class for Civil and Electrical or composite Works and should attach a copy of registration certificate with the quotation/ tender. If the valid registration is not found in order, the quotation/tender submitted by the contractor will not be considered.
- 2.2 Agency/ tenderer / contractor registered with NSIC & MSME is exempted from payment of Earnest Money Deposit but required to attach the attested copy of registration indicating the company name, address, registration number, validity & product for which registered in the technical bid. Any deviation in the certificate on product or validity or name of the company tendering, will attract rejection resulting non-opening of respective price bid.

3) Work Experience:

The Contractor/Agency should have executed in last three years ending last date of tender, at least one work of similar type of 80% or more magnitude or two works of similar type of minimum 60% magnitude or three works of similar type of minimum 40% magnitude individually for executing the tendered work in IITs / IISc / NITs / Research Organizations like DRDO / Government Departments/ Undertakings/ public sectors with contact details. The agency must provide copies of completed works with cost of the same work executed in IITs / IISc / NITs / Research Organizations like DRDO / Institutes or Government Departments/ Undertakings/ public sectors. The Contractor/Agency's performance for each work completed in last three years and in hand should be certified by an Officer not below the rank of Executive

Engineer, General Manager or equivalent.

4) Validity of Rates:

- 1.1 Quoted rate shall remain valid for a period of 90 days from the date of tender opening for the release of work order and will be firm throughout the contract period of **90 Days** or till completion of work, once awarded no cost escalation is allowed on any account.
- 1.2 The item rate offered is for finished item of the works and shall cover complete cost towards fuel, tools, tackles, plant & machinery, temporary works, labour, materials, levies, taxes, transport, lay-out, repairs, rectifications, maintenance till handing over, supervision, labour colonies, establishment, services, roads, revenue expenses, overheads, profits & all other incidentals etc., complete.
- 1.3 The tenderer / contractor are advised to visit the site location and get themselves acquainted with the site conditions before submitting the offer.

5) Completion Time period:

Time is the essence of the contract. Being a time bound project, the tenderer / contractor should complete the work in time. Even though the overall completion period is indicated as **90 Days**. The work shall be completed progressively and handed over as per agreed split up schedule if any.

6) Earnest Money Deposit:

- 6.1 The tenderer/ contractor has to deposit Earnest Money along with Tender documents having minimum validity for 06 months.
- 6.2 EMD of the successful contractor shall be refunded immediately on receipt of performance guarantee and for unsuccessful bidder after award of the bid /tender.

7) Performance Guarantee:

- 7.1 The successful tenderer / contractor will furnish performance guarantee @ 5% of the tendered and accepted value of the work in the shape of demand draft, FDR or bank guarantee from any schedule bank in the favour of Director, NIT Kurukshetra valid up to 60 days after the completion of the work. The time allowed for submission of performance guarantee by the contractor shall be a period up to 15 days of issue of letter of acceptance / work order / purchase order depending upon the magnitude and/or urgency of the work. This period can be further extended at the request of the

contractor by NIT Approving authority for a maximum period ranging from 1 to 15 days with late fee @ of Rs.0.1% per day, of performance guarantee amount.

7.2 The date of start of work shall be reckoned from the 15th day after the date on which letter of acceptance/ work order/ purchase order is given to the contractor.

7.3 The performance guarantee shall be refunded to the contractor soon after the completion of the work.

8) Security Deposit:

8.1 The security deposit shall be collected by deductions from the running bill of the contractors at the rate of 5% of the gross amount of the bill from each running bill as well as final bill of the contractor.

8.2 The security deposit shall be refunded to the contractor 60 days after successful completion of maintenance/defect liability period. The security deposit will not carry any interest.

9) Work to be executed in Accordance with Specifications, drawing, Orders Etc.

9.1 The work shall be carried out as per drawings/ layout plan, released then and there, CPWD specifications, and standard code of practice and as per the instructions of Engineer-in-charge. The brief description of items of work is given in the bill of quantities.

9.2 Since the responsibility for the quality, workmanship and accuracy of any work being carried out under the contract lies with the contractor, the contractor should ensure that no work is done without the presence of contractor's representative at the work spot.

9.3 The decision of Engineer-in-charge shall be final and binding on the contractor regarding clarification of items in the tender schedule.

9.4 The works contract to be entered into with the successful tenderer will be governed by the CPWD Works Manual in force.

9.5 All the works shall be executed as per the standard specifications as provided in CPWD Standard specifications conforming part of "DELHI STANDARD SCHEDULE OF RATES" specifications.

9.6 All the Samples including brand/ quality of materials and fittings brought by the contractor to be used in the work and shall be got approved by the

Engineer- in-charge, well in advance of actual execution and shall be preserved till the completion of the work. Test reports of all the construction material used are to be mandatorily provided by the contractor at his own cost.

10) Deviation/Variations Extent:

- 10.1 Tender quantity is only approximate and liable for variation without entitling the tenderer to any compensation, till the total value of contract vary by more than 30% (thirty percentage).
- 10.2 Some changes are likely in the quantities furnished as well as in the layout, design and specifications of the work. The rates quoted shall be deemed to be inclusive of all such contingencies.
- 10.3 For any item of work not covered in Bill of Quantities, the rate will be arrived at based on the procedure given in CPWD manual.

11) Rate for additional item / substituted item:

This will be as per the rate analysis based on the market rate for material and labour prevailing at the time of execution at place of work as ascertained by Engineer in charge raised to the overall tender percentage at which the work was awarded to cover overheads / establishment/ profit.

12) Compensation for Delay:

The time allowed for carrying out the work shall be strictly observed by the contractor, and shall be reckoned from the date next after fifteen days on which after to commence the works given to the contractor. If the contractor fails to comply or to maintain the required progress or to complete the work and clear the site on or before the contracted or extended period of completion. He shall without prejudice to any other right or remedy on account of such breach, the contractor shall be liable to, pay as compensation an amount equal to 1% per week. For which the competent authority of the institute, may levy on the said estimated cost to the whole work, provided provision of this clause shall not exceed 10% of the estimated cost of work. The Director may reduce the amount of compensation on representation from the contractor and his decision shall be final and binding. In case the progress of the work is not proportionate to the time allotted or the work is being not

carried out in accordance within the specifications, the Institute may: -

- i. Rescind the purchaser order/through a rescinding notice in writing to the contractor by registered post on the address as given by the contractor and in such case the performance security deposits of the contractor shall stand forfeited, and shall be absolutely at the disposal of the Institute.
- ii. Employ labour paid by the Institute and to supply materials to carry out the work, or any part of the work will be done on the risk and cost of the contractor. The cost of the labour and the price of materials will be charged from the contractor under the terms and conditions of this conditions of this contract. The certificate of the Engineer-In-charge as to the value of the work done shall be final and conclusive against the contractor.
- iii. To measure up the work of the contractor and to take such part thereof as, shall be unexecuted out of his hands and to give to another contractor to complete, the balance work which would had been executed by him (of the amount of such excess i.e. difference of rate & amount of the bill) will be recovered from the first tendering agency from his earnest money/security and other dues.

13) Labour Laws to be Complied with by the Contractor:

- 13.1 The contractor shall strictly adhere to various labour laws in force.
- 13.2 The Contractor shall not employ in connection with the work any person who has not completed 18 years of age.
- 13.3 The contractor should have registration with Employees Provident Fund Organisation (EPFO) and Employees State Insurance Corporation (ESIC).
- 13.4 The Contractor shall in respect of labour employed by him, either directly or through subcontractors, comply with or cause to be complied with the following statutory provisions and rules and in regard to all matters provided therein.
 - i. The Contract Labour (Regulation & Abolition) Act 1970
 - ii. The Minimum Wages Act 1948 and related Central Rules.
 - iii. The Payment of Wages Act 1936 and related Central Rules.
 - iv. The Employee's Provident Fund & Miscellaneous Provisions Act 1952.

- v. The Employees State Insurance Act 1948.
 - vi. The Workmen Compensation Act 1923.
 - vii. The Industrial Disputes Act 1947.
 - viii. The Payment of Bonus Act 1965
 - ix. Any other law or modifications to the above or to the Rules made thereunder from time to time.
- 13.5 The Contractor employing 20 or more workmen is required to obtain license from the authorities (The Deputy Chief Inspector of Factories / Assistant Commissioner of Labour as the case may be). The license shall be amended and / or renewed wherever, there is an increase in the workmen employed by him or in the event of contract being extended or renewed. The Contractor shall inform the license number to the NIT KURUKSHETRA Management before taking up the work.
- 13.6 The Contractor (Licensed or unlicensed) shall promptly furnish every information and document required by NIT KURUKSHETRA authorities for the purpose of fulfilling their obligations as Principal Employer and shall render all necessary assistance for the same.
- 13.7 The responsibility to safeguard the persons working at the site is lying with the contractor. Adequate safety measure as per the guidelines should be observed such as high roof, wall etc., sufficient number of Industrial Safety nets shall be provided at tenderer's cost in appropriate level and locations. The working hand including Supervisors, Engineers should wear the personal protective items and safety measures such as helmets, safety belts, shoes, etc., before entering into working place.
- 13.8 The successful tenderer has to deploy adequate labourer of required categories such as Unskilled, Skilled, Mason, Carpenter, Plumber, Welder, Fitter, Mistry, technically experienced, etc. to execute the works simultaneously in all areas of work.
- 13.9 Expertise labour only to be engaged for specialized items of work like laying of ceramic tiles, marbles, cuddapah slabs, granite slabs and false ceiling, partition, wall paneling, architectural finishing etc. and work experienced persons shall be engaged for fabrication, water supply and sewerage system work, etc.

13.10 The tenderers are advised to go through the condition stipulated in Tender document & code of conduct for Safety of Contract Labourer in details. Any violation thereof will invite punitive action being taken against them. While quoting the rate all the above factors are to be taken into account.

13.11 The Contractor shall remain liable for the payment of all wages or other moneys to his work- people or employees under the payment of Wages Act 1936, Employees Liability Act. 1938, Workmen's Compensation Act 1923 or any other Act or enactment, relating thereto and rules framed, thereunder from time to time.

13.12 The contractor shall follow norms of NIT Kurukshetra security system for movement of men & materials within the NIT Campus area.

14) Defect Liability Period:

Generally, the maintenance period/ defect liability period for the works/services will be Twelve (12) Months from the date of completion. (SIX (6) Months in the case of work costing of—Rs.10 Lacs and below except roadwork).

15) Water Charges:

The water charges will be recovered at the rate of 1% of the executed value.

16) Conformity to IE act, IE Rules, and standards:

All electrical works shall be carried out in accordance with the provisions of Indian Electricity Act, 1910 and Indian Electricity Rules, 1956 amended up to date (Date of call of tender unless specified otherwise).

17) Inspection of materials and equipments:

17.1. Adequate care to ensure that only tested and genuine materials of proper quality are used in work shall be ensured by firm. The firm shall ensure that:

- i) Inspection at factory or at go down of the manufacturer of feeder pillar/LT panel/cables/major items, if required, shall be arranged by the firm on a mutually agreed date. Certificate for genuineness of the material shall have to provide duly signed by the manufacturer's authorized representative.

- ii) Delivery of material shall be taken up only with the consent of department, after clearance of the material.
- iii) Department shall reserve the right to waive inspection in lieu of suitable test certificate, at its discretion.

18) Workmanship:

- 18.1. Good workmanship is an essential requirement to be complied with. The entire work of manufacture/fabrication, assembly and installation shall conform to sound engineering practice.
- 18.2. Proper supervision/skilled workmen: The contractor shall be a licensed electrical contractor of appropriate class suitable for execution of the electrical work. He shall engage suitably skilled/licensed workmen of various categories for execution of work supervised by supervisors / Engineer of appropriate qualification and experience to ensure proper execution of work. They will carry out instruction of Engineer-in-charge and other senior officers of the Department during the progress of work.
- 18.3. Use of quality materials: Only quality materials of reputed make as specified in the tender will be used in work.

19) Guarantee

The installation will be handed over to the client department after necessary testing and commissioning. The installation will be guaranteed against any defective design/workmanship. Similarly, the materials supplied by the contractor will be guaranteed against any manufacturing defect, inferior quality. The guarantee period will be for a period mention in following table from the date of completion of work. Installation/ equipments or components thereof shall be rectified/ repaired to the satisfaction of the Engineer-in-charge. Department will not be liable for dismantling and handing over the same to the agency responsible for replacement or rectification.

- 20) Makes of all items that are not covered in the schedule of work/additional specifications shall be got approved from the Engineer-in-charge and shall conform to relevant Indian Standard as applicable.

- 21) The contractor shall provide junction boxes / looping boxes of required sizes and such boxes shall be measured as part of conduit / batten wiring without any extra payment.
- 22) Only brass screws along with brass washers will be used for fixing Phenolic laminated sheet covers and at other places aluminum alloy/ brass / cadmium plated screws will be used.
- 23) All CI/metal boxes & junction boxes should be cleaned properly and painted from inside before wiring & fixing the accessories.
- 24) In wiring items like point wiring / wiring for light and power plug /circuit wiring / sub main wiring, the item includes the cost of conduit also.
- 25) All material to be used on this work by the contractor shall be got approved from the Engineer-in-charge before installation at site.
- 26) The connection, interconnection earthing and inter-earthing shall be done by the contractor wherever required to be done for energisation of the installation and nothing extra shall be paid on this account.
- 27) The contractor shall make his own arrangement for storage of material either brought by or issued to him by the department.
- 28) Loss of life/damages/accident etc. shall be the sole responsibility of the contractor and no compensation shall be payable by the department.
- 29) If any work arises on account of occurrence of faults then the contractor has to respond immediately and undertake the work and ensure resumption of services with short possible time.
- 30) For lying of cable/pipe across road, road cutting to be avoided crossing to be entered by Boki/Trenchless.
- 31) To get repair cables or piping if damaged during resumption of cabling work is the sole responsibility of contractor. If this condition is not get complied by agency, then suitable recovery will be done from the bills of contractor.
- 32) The agency will provide cable route marker to mark the layout of cable at site.
- 33) **Levy/taxes payable by Contractor:**
 - 33.1 GST, work contract tax and labour cess etc. as applicable shall be borne by

the contractor himself. The contractor shall quote his rates considering all such taxes and hence their quoted rates should be inclusive of all the tax components.

33.2 The Tenderer should be a GST Registered Contractor and should have filed returns with respect to GST and proof of documents should be furnished.

33.3 1% Workers / labour Welfare Cess shall be deducted from the Contractor as per CPWD norms.

34) Mobilization Advance: No advance / mobilization advance will be given.

35) Registers & Records:

The Contractor shall maintain all registers and records in the proper manner and as required by the regulations of the various authorities concerned and indemnify the Employer from the consequences due to any inaccurate or faulty documentation on the part of the Contractor.

36) Completion Certificate:

The contractor will obtain a certificate of actual work done from the occupant of the houses/ Faculty/ Lab In-charge of the department/ Warden of the Hostel as the case may be.

37) Submission of Bills by Contractor: -

The Contractor at the end of each month shall submit a bill, if required, detailing the various items of work done during the month supported by the requisitions issued from time to time. The Contractor shall, once in every month, submit to the Engineer-in-Charge separately details of his claims for the work done by him up to and including the previous month which are not covered by his contract agreement in any of the following respects:

- i) Deviation from the items provided in the contract documents.
- ii) Extra items / new items of work.
- iii) Items in-respect of which rates have not been settled. He should in addition furnish a clear certificate to the effect that the claims submitted by him as aforesaid cover all his claims and that no further claims shall be raised by him in respect of the work done up to and including the period under report.

38) Payment of Bills: -

All payments to be made to the Contractor, on carrying out the work according to the specification on the basis of running bills by NEFT or RTGS within 30 days through electronic fund transfer, after the certification of bills by the execution department.

39) Recovery from Contractor: -

Whenever under the contract, any sum of money, shall be recoverable from or payable by the Contractors, the same may be deducted from or any sum then due or which at any time thereafter may become due to Contractor under the contract or under any other contract with NIT Kurukshetra or from his Security Deposit or he shall pay the claim on demand.

40) Termination of Contract on death of Contractor: -

Without prejudice to any of the rights or remedies under this contract, if the Contractor dies, or if the firm is dissolved or the company is liquidated, NIT Kurukshetra shall have the option of terminating the contract without compensation to the Contractor.

41) Special Power to Termination: -

If at any time after the award of contract, NIT Kurukshetra shall for any reason whatsoever not require whole or any part of the work to be carried out the Engineer in charge shall give notice in writing of the fact to the Contractor who shall have no claim to any payment of compensation or otherwise howsoever on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not derive in consequence of the fore- closing of the work.

42) Precautions against Risk: -

The Contractor shall be responsible for providing at his own expense for all precautions to prevent loss or damage from every type of risk and to minimize the amount of any such loss or damage and for the necessary steps to be taken for the said purpose.

43) Corrigendum / Amendment:

It is tenderer's responsibility to watch for any corrigendum or amendment till the opening of a particular tender that will be posted only at NIT Kurukshetra web site.

44)Rejection:

- 44.1 Tenders received after the due date and time of opening, will not be accepted.
- 44.2 Incomplete offers will become liable for rejection.
- 44.3 Canvassing in any form in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
- 44.4 If the tenderer deliberately gives wrong information in his tender or creates conditions favorable for the acceptance of his tender, NIT Kurukshetra reserves the right to reject such tender at any stage.
- 44.5 Any deviation to this tender terms & condition and schedules of this tender will cause total rejection of the offer submitted.
- 44.6 Conditional tenders, tender containing absurd rates and amounts, tenders which are incomplete or otherwise considered defective and tenders not in accordance with the tender conditions laid down by the Accepting Authority are liable to be rejected.
- 44.7 Tenders not submitted on the prescribed form are liable to be rejected.
- 44.8 NIT Kurukshetra reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract awarded against a different Tender.
- 44.9 All entries in the tender documents should be in one ink. Erasers and over writings are not permitted. All cancellations and insertions should be duly attested by the tenderer concerned.
- 44.10 Tenderers should fill in all the required particulars in the blank spaces provided for this purpose in the tender documents and also sign each and every page of Tender Documents including the drawings attached there to, before submitting their tender.
- 44.11 Rate for each item should be quoted in FIGURES and in WORDS. In case of any difference in the rates quoted in figures and in words, the lower of the two rates will be taken as the tendered rate. Unit rate quoted shall be the basis for arriving the total value of the tender. The total amount for every item shall be arrived by multiplying the unit rate with the quantity indicated for that item. In case of any arithmetic deviation is noticed in the total amount, the same will

be corrected and evaluated by taking unit rate as basis and multiplying with the quantity indicated.

- 45) The contractor's responsibility under this contract shall commence from the date of receipt of the LOI by the tenderer. The scheduled period of completion for this work is as mentioned in page No. 01, and the Contractor will have to plan his work accordingly.
- 46) This tender notice shall be deemed to form an integral part of the contract to be entered into for this work.

SPECIAL CONDITIONS OF CONTRACT

1. The contractor who have been blacklisted is not eligible to participate in the tender.
2. No night work will be permitted without the written permission of the Competent Authority.
3. Items of work other than those mentioned in the Bill of Quantities (Tender Schedule) attached hereto will be carried out at the rates to be fixed by the Institute as per relevant clauses of CPWD Works Manual.
4. Permission for erection of temporary work sheds etc., at site will have to be obtained from NIT Kurukshetra in writing in advance.
5. The works contract to be entered into with the successful tenderer will be governed by the CPWD works Manual 2019 or the latest in force.
6. The contractor should extend fullest co-operation with the third party agencies engaged, if any by NIT Kurukshetra, to adhere the Quality Control Procedures for ensuring quality.
7. The contractor should extend full co-operation to the other contractors who may be doing other works in the same areas to enable them to execute their portions of work without any delay or difficulty.
8. In all matters of dispute, the decision of the Director, National Institute of Technology, Kurukshetra shall be final and binding on the tenderer / contractor.
9. Some changes are likely in the quantities furnished as well as in the layout, design and specifications of the work. The rate quoted shall be deemed to be inclusive of all such contingencies.
10. Engineer-in-charge or his duly authorized representative shall have access to Contractor's premises of work and shall have the power at all the times to inspect and test any portion of the work or examine the materials and workmanship of the

structures during execution of work. The contractor shall give due notice in writing to the Engineer-in-charge. When the materials supplied to be incorporated in the work are ready for Inspection and test.

11. The Contractor shall closely scrutinize all the drawings issued in connection with the work by this organization and bring to the notice of the Engineer-in-charge if any discrepancies, omissions in the drawings before undertaking the actual work pertaining thereto.
12. The contractor should submit in advance every fortnight a detailed program of work to be undertaken from time to time strictly in conformities with the "Time and Progress Chart" covering the entire constructed work and reschedule them wherever necessary during the progress of the work so as to achieve the target set.
13. During execution of the work, if there is any delay, stoppage of work on any reason, the same shall be recorded by the contractor under intimation to the Engineer-in-charge.
14. The quarters/ Flats and portion of quarters/flats where the work to be executed on any day shall be got approved by the Engineer-in-charge at the site of work. No work shall be carried out in any quarters/flats without the approval of the Engineer-in-charge.
15. Old doors, windows, floors, furniture's, electrical and other fittings shall be cleaning from all splashes, dust, dirt and mortar etc. The rate of the white washing/color washing/distemping/painting etc. includes the cost of removal splashes and paint marks. In addition, other necessary covering material as approved for neat final outcome during the painting/repair operations.
16. The contractor shall furnish the manufacturer's certificate that the material supplied satisfies the requirements of the relevant specifications.
17. The Engineer-in-Charge shall be at liberty to take respective sample(s) of each item of schedule of quantity in any approved laboratory as decided by him. The sample for testing shall be provided by the contractor. All expenditure required to be incurred for taking sample, conveyance and packing & testing charges etc. shall be borne by the contractor himself. In case any sample particular lot fails in testing, the contractor shall be bound to replace the entire lot with fresh material of prescribed specification and the reject lot shall be returned to the contractor only

after fresh lot is supplied. Testing charges in respect of failed sample will be borne by the contractor himself.

18. All the dismantled material shall be returned to the department after repair/ replacement with new material.

GENERAL SAFETY PRECAUTIONS TO BE FOLLOWED AT WORK SITE

DURING EXECUTION

The following safety measures should be strictly adhered to, during execution of works at sites:

1. Providing the working platform with toe board and handrail for continuous working at heights.
2. Providing safety belt and life line at all times for men working at heights.
3. Providing dust or fume respirator in places where dust and fume concentration exists.
4. Providing goggles and welding screens.
5. Providing acid and alkali proof rubber gloves for handling acid and alkali and chemical which are corrosive.
6. Providing rubber gloves for working on electrical works.
7. Ensuring proper lashing of the components while being transported in vehicles.
8. The vehicles must have side supports or have body to support the materials conveyed.
9. The materials should not be allowed to extend or overflow the sides of the vehicles.
10. Materials should not be allowed to overhang from the rear edge of the body of the vehicle.
11. Driver of the vehicle must possess license.
12. Vehicle must not be overloaded prescribed limits.
13. Red flags and lights for parts projecting from the body of vehicle must be provided.
14. The speed restrictions within the Institute must be strictly adhered to.
15. The gas cylinders must be always handled on trolleys or kept tied down not in use. They should never be rolled as Roller for conveying.
16. Cylinders should not be used without regulators.

17. All excavations must be barricaded and red lamps must be provided.
18. All electrical connections must be properly earthed.
19. Providing helmet, safety belt, etc., for high level work and sufficient number of Industrial Safety nets at appropriate level to safeguard the persons working at high level particularly in roofing etc.
20. All personal protective equipment conforms with standard specification and Contractor including their sub-contractors, agents and labour engaged on the work are required to scrupulously adhere to the safety regulations, safety precautions and measures. Any violation thereof will invite punitive action being taken against them. Also contractors with frequent violations of safety regulations will not be entrusted with further work in this organization.
21. In the event of any injured/fatal accident for the work men during the course of contract period, the compensation and other medical expenses towards the incident is lies with the contractor. No way NIT KURUKSHETRA is responsible.

SAFETY PRECAUTIONS TO BE OBSERVED WHILE TRANSPORTING MATERIALS

VEHICLE

- 1) Vehicles carrying material should have proper registration documents and must be produced on demand by our Security Staff.
- 2) The light on right side, i.e., over the driver's cabin shall be in working condition.
- 3) Both the head lights as well as park lamps must be in working conditions.

MOVEMENT OF VEHICLE

- 1) The vehicle should not travel at more than 20 kmph in our premises.
- 2) The Driver of the vehicle must possess heavy duty license and produce on demand by the Security Staff.
- 3) Vehicles carrying inflammable liquids in the tank containers should have grounding chain or the tank should be coated with insulating material also to avoid Static Electricity.
- 4) In road junctions, speed breakers and railway crossing, the speed should be lowered and vehicle should proceed cautiously.
- 5) The driving should 'KEEP TO THE LEFT' at all places.
- 6) The vehicle should not be parked in road which could obstruct the vehicular traffic.
- 7) No person other than driver should be allowed to sit or stand on the prime mover or

trailer.

8) The vehicle should pass only through the approved routes. Short cuts should be forbidden.

9) There must be a safe distance behind another moving truck.

The driver should avoid making quick starts, jerky stops or quick turns at excessive speed.

LIST OF PREFERRED MAKES FOR CIVIL WORKS

2023

Sr.No.	Name of Product/ Material	Preferred Brand Names
1	ORDINARY PORTLAND CEMENT (GREY) (43 GRADE)	ACC, ULTRATECH, VIKRAM, SHREE CEMENT, AMBUJA, JAYPEE CEMENT, CENTURY CEMENT & J.K. CEMENT.
2	PORTLAND POZZOLONA CEMENT (GREY) (43.GRADE)	ACC, ULTRATECH, VIKRAM, SHREE CEMENT, AMBUJA, JAYPEE CEMENT, CENTURY CEMENT & J.K. CEMENT.
3	WHITE CEMENT	J.K. WHITE, JAPUR SUPREME PACKAGING PVT. LTD., ULTRATECH CEMENT LIMITED.
4	REINFORCEMENT STEEL	SAIL, TATA STEEL LTD., RINL, JINDAL STEEL & POWER LTD. AND JSW STEEL LTD.
5	ADMIXTURES	CICO, SIKA, BASF, FOSROC
6	WATER PROOFING COMPOUND	FOSROC, CICO, PIDLITE, SIKA
7	AUTOCLAVED AERATED BLOCKS	BILTECH, ECO GREEN, FINECRETE, J.K. LAKSHMI CEMENT LTD..
8	POLYMER MODIFIED ADHESIVE FOR AAC BLOCKS	MYK LATICRETE, FERROUS CRETE, ARDEX, ENDURA, ULTRATECH, SIKA.
9	FACTORY MADE PANELLED & WIRE GAUGE WOODEN DOOR/ WINDOW SHUTTERS.	M/S JAIN WOOD INDUSTRIES, KUTTY DOORS, SAMRAT PLYWOOD, NEW JAGDAMBA DOORS, MERINO, KITPLY, AS TIMBER, JAIN DOORS PVT. LTD.
10	FLUSH DOOR SHUTTERS	KUTTY FLUSH DOOR, SAMRAT LAMINATE, NATIONAL PLYWOODS, JAIN WOOD INDUSTRIES, MERINO, MINIMAX, CENTURY, AS TIMBER. ORION, JAIN DOORS PVT. LTD.
11	BLOCK BOARD	MERINO, MINIMAX, NATIONAL, ARCHIDPLY, CENT PLY, JAYNA, CENTURY.
12	LAMINATES	SAMRAT, VIRGO, MERINO, ARCHIDPLY, CENTURY LAMINATES, GREENLAM
13	PRE-LAMINATED PARTICLE BOARD	ARCHIDPLY, CENTURY PLY BOARDS, BALAJI ACTION BUILDWELL, ECOBOARD
14	PARTICLE BOARD (MEDIUM DENSITY)/ VENEERED PARTICLE BOARD	CENTURY PLYBOARDS (INDIAN) LTD., BALAJI ACTION BUILDWELL, EVERGREEN BOARDLAM, ECOBOARD INDUSTRIES LTD.
15	PRE-LAMINATED MEDIUM DENSITY FIBRE BOARD	CENTURY PLYBOARDS, GREEN PLY, BALAJI ACTION BUILDWELL
16	OMS/ MS DOOR FITTINGS	ASHISH, AGGARWAL STEELS, DOOR DEVICES MANUFACTURING COMPANY, MANU ENGINEERING COMPANY, M.C. MOWJEE & CO., SHRI GANPATI DOORS
17	TOILET CUBICALS	GREELAM, MERINO, DORMA
18	STAINLESS STEEL DOOR/ WINDOW HARDWARE FITTINGS (FIRE RATED AND NON-FIRE RATED)	DORMA, ASSA ABLOY, GEZE, D-LINE
(i)	FIRE RATED BALL BEARING HINGES OF STEEL GRADE SS304	GEZE, DORMA, ASSA ABLOY, D-LINE
(ii)	FIRE RATED DEAD LOCK BOTH SIDE KEY OPERATION	GEZE, DORMA, ASSA ABLOY, D-LINE
(iii)	PANIC BAR 1&2 POINT LOCKING PANIC BOLT (DOOR Ht. UPTO 2400MM)	GEZE, DORMA, ASSA ABLOY, D-LINE
(iv)	EXTERNAL TRIM WITH LEVER HANDLE	GEZE, DORMA, ASSA ABLOY, D-LINE.

(v)	AUTOMATIC DOOR METAL SEAL	GEZE, DORMA, ASSA ABLOY, D-LINE
(vi)	SURFACE MOUNTED RACK&PINION FIRE RATED DOOR CLOSER (DOOR WT. 100 KG)	GEZE, DORMA, ASSA ABLOY, D-LINE
(vii)	PULL HANDLE BACK TO BACK, LEGNTH 300MM OF STEEL GRADE SS 304	GEZE, DORMA, ASSA ABLOY, D-LINE
(viii)	FLOOR STOPPER OF HALF DOME OF 45MM DIA OF STEEL GRADE SS 304	GEZE, DORMA, ASSA ABLOY, D-LINE
(ix)	LEVER HANDLE IN SS 304 FINISH	GEZE, DORMA, ASSA ABLOY, D-LINE
(x)	GRAB BAR OF LENGTH 610MM, 25MM DIA	GEZE, DORMA, ASSA ABLOY, D-LINE
(xi)	SURFACE MOUNTED RACK & PINION DOOR CLOSER	GEZE, DORMA, ASSA ABLOY, D-LINE
(xii)	KICK PLATE 0.9MM THICKNESS IN SS 304 FINISH	GEZE, DORMA, ASSA ABLOY, D-LINE
(xiii)	FIRE SEAL	GEZE, DORMA, ASSA ABLOY, D-LINE, GODREJ
(xiv)	PUSH PLATE IN SS 304 GRADE	GEZE, DORMA, ASSA ABLOY, D-LINE, GODREJ
(xv)	DUST EXCLUDING SOCKET IN SS 304 GRADE	GEZE, DORMA, ASSA ABLOY, D-LINE, GODREJ
(xvi)	LEVER ACTION FLUSH BOLT 300MM LENGTH	GEZE, DORMA, ASSA ABLOY, D-LINE
(xvii)	BALL BEARING HINGES HAVING 5 KNUCKLE	GEZE, DORMA, ASSA ABLOY, D-LINE
(xviii)	DEAD LOCK WITH 55MM BASKET IN SS 304	GEZE, DORMA, ASSA ABLOY, D-LINE
(xix)	DISABLE/ MALE/ FEMALE SIGN PLATE IN SS 304.	GEZE, DORMA, ASSA ABLOY, D-LINE
(xx)	AUTOMATIC SLIDING GLASSDOOR	GEZE, DORMA, ASSA ABLOY, D-LINE
(xxi)	FLOOR SPRINGS SATIN STAINLESS STEEL	GEZE, DORMA, ASSA ABLOY, D-LINE
19	ANODISED/ ZINC ALLOY/ ALUMINIUM HARDWARE DOOR/ WINDOW FITTINGS	PULSE, SAVIO, HOPPE, ALUTECH
20	FRP DOOR FRAMES & SHUTTERS	ASHISH INDUSTRIES, JAYNA, SAINIK (CENTURY PLYWOOD), SELECTED PRODUCTS CO., JAIN DOORS PVT. LTD.
21	UPVC WINDOWS/ DOORS	VEKA, FENESTA, REHAU, PROMINANCE WINDOW SYSTEM, ALUPLAST, ENCRAFT.
22	UPVC WINDOW/ DOOR HARDWARE FITTINGS (ZINC ALLOY)	PULSE, HOPPE, GU, ROTO, GODREJ, KINLONG
23	WIDOWS BLINDS	VISTA, MAC, HUNTER, DOUGLAS, DE-DÉCOR
24	STRUCTURAL STEEL SUCH AS MS FLATS, SQ.BARS ANGLES ETC.	SAIL, TATA STEEL, RINL, JINDAL STEEL & POWER LTD. AND JSW STEEL LTD.
25	FIRE RATED DOORS (METALLIC/ NON METTALIC)	KUTTY DOORS, NAVAIR, PROMAT, SYNERGY THRISLINGTON, JAIN DOORS PVT. LTD.
26	HOT-ROLLED STEEL SECTIONS FOR MS DOORS, WINDOWS AND VENTILATORS	NAV DURGA STEEL CORPN, CRM STEELS P. LTD, SHYAM ISPAT UDYOG, VIMAL, SHIV
27	MILD STEEL DOOR, WINDOWS & VENTILATORS MANUFACTURERS	FRIENDS MANUFACTURING COMPANY, KOTKAPURA, PD INDUSTRIES, SHAKTI INDUSTRIES, STEELMAN INDUSTRIES, SKS STEEL INDUSTRIES, SHIVAM
28	PRESSED STEEL DOOR FRAMES MANUFACTURERS	KRISHNA STEEL FABRICATOR SIRSA, LAXMI STEEL WORKS BAHADURGARH, ASHISH INDUSTRIES GHAZIABAD, ASHWANI & SONS, SHRI GANPATI DOORS
29	HOLLOW STEEL SECTIONS	JINDAL INDUSTRIES HISAR, TATA STEEL, STEEL & METAL TUBES (INDIA) PVT. LTD.

30	STEEL TUBES FOR STRUCTURAL STEEL	JINDAL INDUSTRIES HISAR, TATA STEEL, STEEL & METAL TUBES (INDIA) PVT. LTD.
31	DASH/ ANCHORING FASTENERS, BOLTS, SCREWS AND NUTS.	HILTI, FISCHER, CKW, ATUL, PRIYA
32	STAINLESS STEEL RAILING	DORMA, KICH, OM STEEL, D-LINE.
33	CHEQUERRED PRE-CAST CC TILES	NTC, SWASTIK TILE, POOJA CONCRETE FABRICATORS, GTC.
34	CERAMIC TILES	SOMANY, KAJARIA, ORIENTBELL, RAK, ASIAN GRANITO INDIA LTD.
35	VITRIFIED TILES	SOMANY, KAJARIA, ORIENTBELL, RAK, ASIAN GRANITO INDIA LTD.
36	ADHESIVE/ GROUTING FOR USE WITH TILES	FERROUS CRETE, MYK LATICRETE, ARDEX EDURA, FAIRMATE, DURA BUILD CARE, BASEX, SIKKA
37	WOODEN LAMINATE FLOORING	PERGO, KRONOTEX, FLORENCE, UNITEX, ACTION TESA
38	UNPLASTICISED RIGID PVC PIPE & FITTINGS	SUPREME, FINOLEX, PRINCE, KISAN, DIPLAST.
39	GALVANISED STEEL SHEETS. (UNCOATED & PRE-COATED)	SAIL, TATA, JINDAL, NCL
40	ROOFING SHEETS (GALVALUME)	CRIL, LLOYDS, INTERACH, MULTICOLOR, BHUSHAN POWER STEEL
41	FALSE CEILING- GYPSUM	SAINT GOBAIN, VANS GYPSUM, USG BORAL, LLYOD, DIAMOND, GYPTECH
42	FALSE CEILING- METAL	ARMSTRONG, DEXUNE, SAINT GOBAIN, HUNTER DOUGLAS, GYPTECH
43	FALSE CEILING- CALCIUM SILICATE	HILUX, AEROLITE, ARMSTRONG, PROLAD, GYPTECH
44	FALSE CEILING-MINERAL FIBRE	ARMSTRONG, DEIKEN, DEXUNE, SAINT GOBAIN, PROLAD, DIAMOND, GYPTECH
45	ACCOUSTIC: GLASS / WOODEN FIBRE FALSE CEILING AND WOODEN/ FABRIC WALL LINING	ARMSTRONG, DEXUNE, ACCOUSTIBLOK, HIMALYAN ACOUSTICS, ANUTONE, GYPTECH, PROLAD
46	FALSE CEILING-ALUMINIUM POWDER COATED	ARMSTRONG, DEXUNE, SAINT GOBAIN, HUNTER DOUGLAS, HI-STEEL
47	LIGHT WEIGHT GYPSUM PLASTER	SAINT GOBAIN, ULTRATECH, FERROUS CRETE, USG BORAL.
48	OIL BOUND DISTEMPER/ ACRYLIC DISTEMPER *	NEROLAC ACRYLIC DISTEMPER, TRACTOR ACRYLIC DISTEMPER (ASIAN PAINTS), MAXILITE ACRYLIC DISTEMPER (ICI), BISON ACRYLIC DISTEMPER (BERGER).
49	INTERIOR EMULSION/ PLASTIC EMULSION*	DULUX ACRYLIC EMULSION/ SOLITAIRE A-1000 (ICI), APCOLITE PREMIUM EMULSION (ASIAN), BEAUTY GOLD (NEROLAC), SILK (BERGER)
50	ACRYLIC SMOOTH EXTERIOR PAINT*	APEX ULTIMA (ASIAN), DULUX WEATHERSHEILD MAX (ICI), EXCEL (NEROLAC), WEATHERCOAT ALL GUARD (BERGER)
51	DRY DISTEMPER*	NEROLAC, BERGER, ASIAN PAINTS, ICI, JENSON & NICHOLSON (J&N)
52	TEXTURED EXTERIOR PAINT*	NEROLAC, BERGER, ASIAN PAINTS, ICI
53	SYNTHETIC ENAMEL PAINTS*	DULUX HI-GLOSS (ICI), APCOLITE PREMIUM GLOSS (ASIAN), NEROLAC HIGH GLOSS (NEROLAC), LUXOL HI-GLOSS (BERGER)
54	WOOD PRIMER*	NEROLAC, BERGER, ASIAN PAINTS, ICI
55	STEEL PRIMER*	NEROLAC, BERGER, ASIAN PAINTS, ICI
56	EXTERIOR WALL PRIMER*	EXTERIOR NEROLAC-PRIMER, EXTERIOR BERGER PRIMER, EXTERIOR ASIAN PAINTS PRIMER, EXTERIOR ICI PRIMER
57	WALL PUTTY (WHITE CEMENT BASED)	BIRLA WALL CARE, JK WHITE, SARA WALL PUTTY
58	POLYMER MODIFIED SELF CURING PLASTER	MYK LATICRETE, FERROUS CRETE, ARDEX ENDURA, ULTRATECH
59	PAVER/ GRASS PAVER BLOCKS & KERB STONES	NATIONAL TILES CORPORATION, SARAL IMPEX, BALAJI TILES, METRO PAVERS, MGM INFRA, KRISHNA TILES, DALAL TILES, BHARAT TILES (BT).

60	VITREOUS CHINA SANITARY WARE	HINDWARE, CERA, PARRYWARE, JOHNSON PEDDER, SOMANY.
61	WHITE VITREOUS CHINA UNDER COUNTER RECTANGULAR BASIN	CERA CAT. NO. S 2030104 OR EQUIVALENT MODEL OF HINDWARE, PARRYWARE, JOHNSON PEDDER, SOMANY
(i)	PLASTIC FLUSHING CISTERN FOR WC AND URINALS	JINDAL, STEEL BIRD, SEEMLINE, VIKRAM PLASTIC, PRAYAG POLYMERS (P) LTD.
62	PLASTIC SEAT COVER OF W.C.	AJANTA POLYMERS, JINDAL MALPINE, JAIN POLYMERS
63	STAINLESS STEEL SINK	ALLEX, JAYNA, JMD INTERNATIONAL, STEEL CRAFT
64	MIRROR GLASS	ATUL, MODIGUARD, GOLDEN FISH
65	CENTRIFUGALLY CAST (SPUN) IRON PIPES	NECO, BENGAL IRON, DURGAPUR ISPAT UDYOG, SINGHAL IRON FOUNDRY (SKF), KAPILANSH DHATU UDYOG PVT. LTD., RPF, HIF.
66	HUBLESS CENTRIFUGALLY CAST (SPUN) IRON PIPES	NECO, RAJ PATTERN MAKERS & FOUNDERS, SINGHAL IRON FOUNDRY (SKF).
67	CP FITTINGS & ACCESSORIES	JAQUAR, HINDWARE, PRIMA, JAINKO, CERA, JAL, KINGSTON
(i)	CP Brass Health Faucet 15 mm N.B.	CERA, JAQUAR, HINDWARE, JAINKO, PRIMA, JAL, PARRYWARE
(ii)	CP Brass Auto closing pillar cock 15 mm	CERA, JAQUAR, HINDWARE, JAINKO, PRIMA, JAL, PARRYWARE
(iii)	CP Brass sink mixer 15 mm	CERA, JAQUAR, HINDWARE, JAINKO, PRIMA, JAL, PARRYWARE
(iv)	CP Brass towel rail 600mm long	CERA, JAQUAR, HINDWARE, JAINKO, PRIMA, JAL, PARRYWARE
(v)	CP Brass towel ring	CERA, JAQUAR, HINDWARE, JAINKO, PRIMA, JAL, PARRYWARE
(vi)	CP Brass shower with shower arm 450mm	CERA, JAQUAR, HINDWARE, JAINKO, PRIMA, JAL, PARRYWARE
(vii)	Liquid soap dispenser with CP Brass holder and glass bottle of 300ml capacity	CERA, JAQUAR, HINDWARE, JAINKO, PRIMA, JAL, PARRYWARE
(viii)	CP Brass wall mixer 15 mm	CERA, JAQUAR, HINDWARE, JAINKO, PRIMA, JAL, PARRYWARE
(ix)	CP BRASS BIB COCK 15mm NB	CERA, JAQUAR, HINDWARE, JAINKO, PRIMA, JAL, PARRYWARE
(x)	CP BRASS LONG NOSE BIB COCK 15mm NB	CERA, JAQUAR, HINDWARE, JAINKO, PRIMA, JAL, PARRYWARE
(xi)	CP BRASS LONG BODY BIB COCK 15mm NB	CERA, JAQUAR, HINDWARE, JAINKO, PRIMA, JAL, PARRYWARE
(xii)	CP BRASS ANGL VALVE 15mm NB	CERA, JAQUAR, HINDWARE, JAINKO, PRIMA, JAL, PARRYWARE
68	BRASS STOP & BIB COCK	DHAWAN SANITARY UDYOG, JAINKO, SHAKTI, VARDHMAN INDIA PRODUCTS
69	FERRULES FOR WATER SUPPLY	HIND METAL WORKS, KRITIKA, DRP, SHAKTI
70	BALL COCK WITH ROD	RESP FAUCET INDUSTRIES, DHAWAN SANITARY UDYOG, NEW METAL WORKS, KPR, PRAYAG.
71	POLYETHYLENE WATER STORAGE TANK	SINTEX, VECTUS, KAVERI
72	STONEWARE PIPES & GULLY TRAPS	SORKHI INDUSTRIES, RK INDUSTRIES, NAVNEET, MOLI CERAMICS, OCR, ANAND
73	PRE-CAST CONCRETE PIPES (NON-PRESSURE)	RAMNIK, BFSP, JAGDAMBAY SPUN PIPE, GURKIRPA SPUN PIPES
74	GI PIPE	JINDAL (HISSAR), TATA, BST, BHUSHAN POWER STEEL
75	GI FITTINGS	UNIK, AVR, ZOLOTO, SANT, HBI, C-BRAND, NVR
76	C-PVC PIPE	PRINCE, JINDAL (FLOWKEM), ASTRAL, AJAY POLYMERS, SUPREME, FINOLEX, JAIN PIPES
77	WATER METER	CRESCENT, PRINCE, FEDREL, DASHMESH, NBESON, SANT
78	GUN METAL GATE, GLOBE, CHECK VALVES & NON-RETURN VALVES	LEADER, ZOLOTO, SANT, RAJAN METAL INDUSTRIES, SIR, H.B. METALS, HVI, NVR.
79	CENTRIFUGALLY CAST (SPUN) IRON PIPES (CLASS LA).	TRU FORM ENGINEERS, KAPILANSH, ELECTROSTEEL, HITECH METAL CASTINGS.

80	C.I. SLUICE VALVES & REFLEX VALVES	ZOLOTO INDUSTRIES, SANT VALVES, AMCO INDUSTRIES, KIRLOSKAR, SIR, RATAN INDUSTRIAL CORPORATION, HVI, NVR.
81	STAINLESS STEEL PIPES & FITTINGS	JINDAL STAINLESS STEEL, OM STEEL GROUP, V STEEL, VIEGA, RAMPART INDIA PVT. LTD.,
82	DUCTILE IRON PIPES & FITTINGS	JINDAL SAW LTD, ELECTRO STEEL, CHANDRANCHAL INFRA, ELECTROTHERAM
83	C.I./D.I. MANHOLE COVERS & FRAMES	SWASTIKA ENTERPRISES, BENGAL IRON CORPORATION, NECO, BINAY UDYOG, CHANDERANCHAL
84	WATER REPELLANT SILANE CHEMICAL	PIDILITE, FERROUS CRETE, ARDEX ENDURA
85	ALUMINIUM SECTIONS	HINDALCO, JINDAL, INDIAN ALUMINIUM CO.
86	BASIC/ TOUGHENED ETC. GLASS	SAINT GOBAIN, ASAHI, MODI, GOLD PLUS GLASS, PILINGTON.
87	APPROVED PROCESSORS FOR PERFORMANCE GLASS/ TOUGHENED GLASS/ HERMETICALLY SEALED/ LACQUERED GLASS etc.	ART & GLASS, MIRAGE TOUGHENED GLASSES (P) LTD., AIR PAR GLASS, VERMA GLASS.
88	STRUCTURAL GLAZING	ALCOB, ALUPRO, ALUPLAX, SP FABRICATORS, SAINT GOBAIN, GLAVERBEL.
89	FAÇADE GLASS OPENABLE FITTINGS	ALUALPHA, SAVIO, HOPPE, ALUTECH
90	GLASS FAÇADE/ GLASS CANOPY WITH SS SPIDER FITTINGS	ALCOB, ALUPRO, ALUPLAX, SP FABRICATORS, SAINT GOBAIN, GLAVERBEL.
91	FRAMELESS GLAZING WITH SS PATCH FITTINGS	DORMA, ASSA ABLOY, GEZE, D-LINE

LIST OF ACCEPTABLE MAKES

> Internal Electrification And Street Lighting:

S. No.	Description of Items	Approved Makes
1.	M.S. Conduit & Accessories (ISI Marked)	BEC/AKG/ STEEL KRAFT/NIC
2.	PVC Insulated FRLS Copper Conductor Wires 1.1 kV Grade (ISI Marked)	Polycab/ Havells/RR Kable/ KEI/Grandlay
3.	Modular Plate/Modular Switch & Socket/GI Boxes/ Fan Regulator/ Telephone/RJ-45/RJ-11/Modular Socket/Bell	Schneider (Livia)/ Legrand (Arteor)/ ABB(Tvisha)/Mk (Element) /Cabtree (Athena)/Equivalent Model in Panasonic Anchor
4.	MCBDB/MCB /Isolator/DB/RCCB/ELCB	Legrand / Schneider /ABB/ Siemens / L&T
5.	LED Fittings	Trilux/Philips/Regent Lighting/LT/Wipro
6.	BLDC Fans/Ceiling Fan / Exhaust Fan (ISI Marked)	Havells / Crompton / Usha / Almonard/Orient/ A&S tom
7.	Telephone Cables / Wires (ISI Marked) / Co-Axial Tv Cables	Finolex/ Polycab / Havells / RR Kable / KEI/Grandlay
8.	Cat-6A loaded jack panel, Cat-6A Patch cord, Optical Fibre Cable, Wire/Cables and other accessories	Systemex/ Beldon/ Legrand /Molex/Schneider/ Derwiser
9.	Telephone Tag Block DP Boxes	Krone (German) / D Link / ITL
10.	DWC Hdpe Pipe (Isi Marked)	Rex / Duraline /Trupati / Gemini
11.	1:1 KV XLPE (Alumium/Cu) Cable (ISI Marked)/11 KV HT cable	Polycab/ Havells/RR Kable/ KEI/Grandlay
12.	Occupancy Sensor/lighting management system/Software/Other accessories	Phillips Dynalite/ HoneyWell /Lutron/Crestron
13.	Feeder Pillars/Electrical panels	SPC Electrotech Pvt.Ltd/ Tricolite/Adlec/ Neptune/Advance Panel Control System/Associated Switchgears Pvt. Ltd./ RP Control/Mile Stone
15.	ACBs	L & T (U-Power)/ Siemens (3WL)/ Schneider (Master Pact - MVS) /ABB(E-Max)/ Equivalent model of Legrand
16.	MCCBs	Siemens (3VL)/ Schneider (Master Pact - NSX) / Equivalent model of Legrand/ABB/ L&T(D-Sine)
17.	Data Rack & Accessories	Schneider /Rittal/ Valrack/Derwiser
18.	Current Transformers & Potential Transformer	Automatic Electric/ Kappa/ L&T
19.	Digital Indicating Measuring Instruments/ Multifunction Meters/ Digital Energy Meter	L&T/Conzerv/Automatic Electric /ABB
20.	Selector Switch	L&T/Kaycee/Siemens /ABB/ Automatic Electric/ Kappa/ Schneider
21.	Indication Lamp & Push Button/ Relay/Timer/Contactor/	L&T/ Kaycee/ Siemens /ABB/ Automatic Electric/ Kappa/ Schneider
22.	APFC Relays	L&T / Siemens / Schneider / Ducati/ ABB
23.	Bus Trunking, Rising Main & Tap- Off Box	Legrand/ L&T/ Schneider/ ABB
24.	Cable Trays & Accessories	Venus/ Slotco/ Pilco/ Reeco/Rmcon
25.	Capacitor(ISI Marked)	Neptune/ Siemens/ L&T /Schneider
26.	Cable Gland/ Lugs/ Thimbles	Commet/ Dowells/ Raychem/ Gripwell

27.	Octagonal Steel Pole/ High Mast/Decorative poles	Bajaj/Keselac/Volmont/Twinkle Lite/Twinkle Luxmax/Hi-Lite
28.	Emergency/Exit Lighting System And Components, Fixtures	Eaton/ABB/Hochiki/CEAG
29.	SMF Batteries	Amaron/ Exide/Amaraja/ Lumminous
30.	Heat Shrinkable HT Cable End Termination	Denson/ Raychem/ Capseal
31.	Fire Suppression system with clean agent	FireTrace/Tracefire/Lifeguard/Ceasefire/fire frame/Minimax
32.	EV charging system	Eaton/Labotek/Panasonic
33.	Drinking Water Pumps	Kirloskar/ Mather & Platt/Grundfoss/ KSB
34.	Rigid PVC Conduit Pipes & Accessories (ISI Marked)	Norpack/Finolex/Supreme/Astral
35.	G.I Pipe	Tata/Jindal(Hisar)/SAIL.

▷ HVAC / VRF / VRV / SPLIT A.C.

S. No.	Material / Item	Make
1	VRV/VRF System (Outdoor & Indoor Unit)	Toshiba/Mitsubishi Electric / Hitachi/daikin/CARRIER
2	Copper Tubes/Pipe	Met-Tube/Hindustan/Rajco/Total line/Mandav tubes/Jindal Refrigeration
3	Treated Fresh Air Unit (TFA).	Zeco Aircon/Carrier/ Blue Star/Greenheck/ Flaktood/Toshiba
4	Cooling coil	Zeco Aircon/ Edgetech /Carrier/ Blue Star/ Voltas
5	Propeller Fan	Kruger/Greenheck/Flaktwood/Zeco
6	Inline Fan	Pineair/ Ostberg / Kruger/Greenheck/ Flaktwood/Zeco
7	MS Pipe / G.I. Pipe	TATA / SAIL / Jindal (Hissar)
8	PUF Pipe Support	Malanpur / Lloyd/Best Puf
9	Thermometer / Pressure Gauge	Fiebig / H-Guru/ Emerald / Anergy
10	Flexible pipe connection	Resistoflex / Kanwal /Dunlop /Easyflex
11	PID Control Valve h Actuator, motor and Thermostat	Danfoss / Siemens / Oventrop
12	Auto air vent stop valve	Rapid Cool / Anergy / AIP/Emerald/Fiebig
13	Factory & Site Fabricated Rectangular Duct	Zeco Aircon/Edgetech/ Rolastar/Eco duct/ Dustech
14	G.I. Sheet	TATA / SAIL / Jindal (Hissar)
15	Factory Fabricated Spiral Duct	GPSpiro/Dustech/Zeco Aircon /Edgetech/ Rolastar/Eco duct
16	Vibration isolator / Rubbed pad/Duct support Arrangement	Dunlop / Resistoflex /Emerald
17	CO2 Sensor	Danfoss / Honeywell / Siemens
18	Modulating Motor/Valve	Danfoss / Honeywell / Siemens / Oventrop
19	Cable Tray & Accessories	As per IEI Works
20	Volume Control Damper, Fresh/ Exhaust air louver	Conaire/Pineair/Caryaire/Dynacraft/System Air
21	Grille / Diffuser / Jet Nozzle	Conaire/Pineair/Caryaire/Dynacraft/System Air
22	Fire Damper	Conaire/Pineair/Caryaire/Dynacraft/System Air/Ruskin/Trox

23	Actuator for fire damper	Siemens/ Honeywell / Danfoss
24	Nitrile Rubber Insulation	Armacell / Eurobatex / Vidoflex
25	Acoustic Insulation for Duct	UP Twiga / Owns Conning
26	EPS	Beardcell/StyrenePackaging/P.R. Packaging
27	Fastner	Hilti / Wurth / Fisher
28	Wire rope & zip clip	OBO / Equivelent
29	Electrical Panel/Feeder Pillar	As per IEI Work
30	Motor for AHU Fan/Ventillation Fans/Starters/	Siemens / ABB / Crompton
31	Current Transformer/Potential Transformer/ACBs/MCCBs/MCBs/Ammeter/Voltmeter/LED Indicating lamp/Push Button/ Selector Switch	As per EI Work
32	LT Cable	As per IEI Work
33	Single Phase Preventor/Relay/Timer/Contactor	Siemens / ABB/Schnieder/L&T/Legrand
34	Paint	Nerolac / Asian / Berger
35	Termination Kit/Perforated Cable Tray/Cable Gland	As per IEI Works
36	Solder less Lug	Dowell / Schneider Electric
37	Aluminium Sheet	Hindalco/ Jindal/TATA
38	Pan Humidifier	KEPL/Rapidcool/Emerald/Danfoss
39	Humidistat/Airstat	Honey well/Danfoss/Jhonson/Siemens

LIFTS

S. No.	Material / Item	Make
1.	Lift	OTIS ELEVATOR COMPANY INDIA LIMITED/KONE ELEVATOR INDIA PRIVATE LIMITED/ MITSUBISHI ELEVATOR INDIA LIMITED/ SCHINDLER ELEVATOR CORPORATION/ JOHNSON ELEVATOR

LAN & AV System

Sr.No.	Item	Acceptable make
1.	LED monitor/LED Screen	LG/Samsung/Sony/Panasonic
2.	Workstation	HP/Dell/ Lenovo/ IBM
3.	Cat-6A loaded jack panel, Cat-6A Patch cord, Optical Fibre Cable, Wire/Cables and other accessories	Systemex/ Beldon/ Legrand /Molex/Schneider/Derwiser
4.	Network Switch/SFP Modules	Cisco/Juniper/Extreme/Alcatel Lucent/ Allied Telesis
5.	Wi-Fi Controller	Cisco/Juniper/Extreme/Alcatel Lucent/ Allied Telesis
7.	Wi-Fi access point	Cisco/Juniper/Extreme/Avaya /Alkatel/ Allied Telesis
8.	IP Based EPABX System	Cisco/Juniper/Extreme/Alcatel Lucent/ Allied Telesis
9	Digital Key Phone with LCD Display	Panasonic / Siemens / Beetel / Motorola
10.	Land line phone/Analog Phone	Panasonic / Siemens / Beetel / Motorola

11.	Distribution (MDF) Box	Krone / Hensel / A K Electronics
12.	Equipment racks	Valrack /Rittal/Schneider/Derwiser
13.	Distribution (MDF) Box	Krone / Hensel / A K Electronics
15.	Boom Barrier	Nice / SEA / Dorma Kaba / Came / Magnetic
16.	Projector	Panasonic/ Sony/ Epson/ Barco/Optoma/Christie
17.	Mounting Kit	As per OEM
18.	White Board/Motorised Screen	Suvira/ Liberty/ Draper/ Dalite/Ordain/AV Space
19.	Speaker	Bose/JBL /EV/ Audac/Yahama/Labgruppen/Xilica
20.	Audio Mixer/ Amplifier	Bose/JBL /Powersoft/ Audac/Yamaha/Xilica/Renkus Heinz
21.	DSP/Switcher	Extron/Crestron/Sennheiser/Xilica/Audec/Symmatri x/Blamp
22.	Digital Podium	ORDAIN/AHA/Solvisjon/Altop
23.	21 inch interactive display	LG/Samsung/Maxhub/Ordain/Optoma/AHA/Altop
24.	HDMI Transmitter/Reciever	Kramer/ Extron/Crestron/Solvisjon
25.	98 inch Display/Video Wall	Panasonic/ Sony/ LG/Samsung/Delta
26.	Chairman/Delegate Discussion Unit & central Unit	Sennheiser/Brahler/Solvisjon/Audec
27.	Wireless presentation Device	Extron/Crestron/Ordain/Barco/Kramer
28.	Wireless Gooseneck/Lapel/Handheld Microphone	Sennheiser/Brahler/Solvisjon/Audac/Revolab
29.	PTZ Video Camera	Panasonic/Sony/Solvisjon
30.	Speaker cable/ Microphone cable/CVGA/HDMI/Video Cable/USB Extender	Belden/Audac/Kramer/Tasker

Addressable Fire Alarm & PA System

Sl. No.	DESCRIPTION	APPROVED MAKES
1.	Fire Alarm Control Panel/ SOFTWARE/ Digital Voice Evacuation System	HONEYWELL(Notifier)/ JOHNSON CONTROL(IFC)/ Equivalent models in GE EDWARD / SIEMENS / BOSCH/ EATON/DETNOV
2.	MULTI CRITERIA DETECTOR / Heat Detector/ DUCT DETECTOR / FAULT ISOLATOR/ MCP	HONEYWELL(Notifier)/ JOHNSON CONTROL(IFC)/ Equivalent models in GE EDWARD / SIEMENS / BOSCH/ EATON/DETNOV
3.	SPEAKERS	Honeywell/Bosch / Siemens/Bose/Yamaha /Shure
4.	FIREFIGHTER JACK & FIRE FIGHTER HANDSET/ INTERACTIVE FIRE FIGHTER DISPLAY	Honeywell/Bosch /Siemens/Bose
5.	M.S CONDUIT & ACCESSORIES (ISI MARKED)/Armoure Fire Survival cable (LSZH)	As Per IEI Work
6.	Power Amplifier /Mixer Amplifier/ Controller Voltage VAS /Rated Power Volume Control / Musical Instrument	Honeywell/Bosch / Siemens/Bose/ Yamaha /Shure
7.	Digital Public Address and Emergency Sound System Controller	Honeywell/Bosch / Siemens/Bose/Yamaha/ Shure
8.	Announcement console / Digital Call Stations / Remote call station interface	Honeywell/Bosch / Siemens/Bose/Yamaha/ Shure
9.	CD Player	PHILIPS/SONY/PANASONIC
10.	Fibre Optic Network Cable/Cat 6	As per IEI Work
11.	Two Core Twin Twisted Speaker Cable/	Finolex/ Polycab/ Havells/RR Kable/ KEI/ Grandlay

PP

12.	Equipment rack	As per IEI Work
13.	Audio CD music source	Philips / Sony / Panasonic